INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/014035

	FCI/U	P2004/014035	
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ Gl1Cl1/41, H01L27/10			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl ⁷ G11C11/41, H01L27/10			
Documentation searched other than minimum documentation to the ext	ent that such documents are included in	the fields searched	
Jitsuyo Shinan Koho 1922—1996 Jitsuyo Shinan Toroku Koho 1996—2004 Kokai Jitsuyo Shinan Koho 1971—2004 Toroku Jitsuyo Shinan Koho 1994—2004			
Kokai Jitsuyo Shinan Koho 1971—2004 Toroku Jitsuyo Shinan Koho 1994—2004			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category* Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
X JP 10-188570 A (International	al Business Machines	1,4	
Y Corp.);		2,3,30-41	
A 21 July, 1998 (21.07.98), Figs. 1, 9		42,43	
& US 5831896 A			
X JP 7-230692 A (Fujitsu Ltd.)		5-7,15	
Y 29 August, 1995 (29.08.95),		2,3,8-14,	
Fig. 8			
A (Family: none)		16-19,30-41 25,43	
Y JP 4-85789 A (NEC Corp.),		8-16,36-39	
18 March, 1992 (18.03.92),			
Fig. 1 (Family: none)			
(ramily, none)			
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or p date and not in conflict with the application but cited to understant the principle or theory underlying the invention		plication but cited to understand	
"E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be		he claimed invention cannot be	
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other	step when the document is taken al	one	
special reason (as specified)	"Y" document of particular relevance; to considered to involve an invention	ve step when the document is	
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the	combined with one or more other s being obvious to a person skilled in	uch documents, such combination	
priority date claimed "&" document member of the same patent family			
Date of the actual completion of the international search Date of mailing of the international search report			
05 January, 2005 (05.01.05) 25 January, 2005 (25.01.05)			
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer		
Facsimile No. Telephone No. Form PCT/ISA/210 (second sheet) (January 2004)			

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant	passages Relevant to claim No.	
Y	JP 61-188795 A (N.V. Philips' Gloeilampenfabrieken), 22 August, 1986 (22.08.86), Full text; all drawings & EP 116119 A & US 4723229 A	17-19,40,41	
X Y A	JP 11-17025 A (Toshiba Corp.), 22 January, 1999 (22.01.99), Fig. 4 (Family: none)	20 23 21,22,24-29, 42,43	
YA	JP 61-26997 A (Toshiba Corp.), 06 February, 1986 (06.02.86), Fig. 4 (Family: none)	23. 24-29	